

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference PCT-557	FOR FURTHER ACTION		see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/JP2005/003673	International filing date (day/month/year) 25/02/2005	(Earliest) Priority Date (day/month/year) 27/02/2004	
Applicant ABE, Fujio			

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 3 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

a. the figure of the **drawings** to be published with the abstract is Figure No. 3

☒ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

b. ☐ none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International Application No
PCT/JP2005/003673

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B01J20/26 B01D53/28 B01D53/26

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B01J B01D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2003/207997 A1 (MERTENS RICHARD ET AL) 6 November 2003 (2003-11-06)	1-5
Y	paragraph '0034!; claims 1,11,12,21,22; example 13	6-12
X	US 5 409 771 A (DAHMEN ET AL) 25 April 1995 (1995-04-25) claims 1,12-14; examples 20-23	1-3,6
Y	US 5 534 186 A (WALKER ET AL) 9 July 1996 (1996-07-09) column 19, paragraph 3 column 12, paragraph 2 - paragraph 4	7-12
Y	US 5 849 405 A (WANG ET AL) 15 December 1998 (1998-12-15) column 16, paragraph 1 - paragraph 2; claim 1	6

☐ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

16 June 2005

Date of mailing of the international search report

24/06/2005

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/JP2005/003673

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2003207997 A1	06-11-2003	DE 19909653 A1 AT 239049 T AU 760748 B2 AU 3807000 A BR 0008737 A CA 2362451 A1 CN 1342180 A CZ 20013129 A3 DE 50001975 D1 WO 0053664 A1 EP 1169372 A1 JP 2002538275 A PL 350513 A1 RU 2243238 C2 US 6620889 B1	07-09-2000 15-05-2003 22-05-2003 28-09-2000 02-01-2002 14-09-2000 27-03-2002 16-01-2002 05-06-2003 14-09-2000 09-01-2002 12-11-2002 16-12-2002 27-12-2004 16-09-2003
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